

65 – INDEPENDENT AGENCIES – REGULATORY

407 – PUBLIC UTILITIES COMMISSION

CHAPTER 140 - UTILITY SERVICE AREA AND INFRASTRUCTURE MAPS

SUMMARY – This rule requires certain public utilities to develop, maintain, and file with the Commission maps of their service area and key infrastructure. This rule further establishes standards for the content and format of those maps.

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SECTION 1. GENERAL PROVISIONS

1. Applicability of Rule This Chapter applies to all gas utilities, electric transmission and distribution (T&D) utilities, water utilities that serve more than 5,000 customer accounts in Maine, incumbent local exchange carriers (ILECs), competitive local exchange carrier (CLEC) telephone utilities that are designated as eligible telecommunications carriers (ETCs) by the Commission pursuant to 47 USC § 214(e), and interexchange carriers (IXCs) with facilities in Maine. The requirements of Section 2 (Service Area Exchange, and Wire Center Boundary Maps) do not apply to IXCs. The requirements of Section 3 (Infrastructure Maps) do not apply to T&D utilities that provide service only on offshore islands.

2. Definitions

A. “Key Infrastructure” means:

- (1) for electric transmission and distribution utilities: transmission lines, switching substations, static var compensators, and system operation dispatch facilities.
- (2) for gas utilities: mains, key valves, service taps, meter stations, regulator stations, propane-air plants, LNG plants, and compressor stations.
- (3) for telephone utilities: tandem and local switching offices including remote switches, interoffice and host-remote umbilical facilities, digital line carrier field equipment, SONET nodes, presence of TSP or TESP circuits, IXC POPs and facilities, key SS7 elements (i.e., links, SC and STP locations), operator centers, and E-911 PSAPs.
- (4) for water utilities: mains, groundwater wells, surface water intake structures, treatment facilities, treated water storage facilities, hydrants, and pumping stations.

B. “Key Infrastructure Attributes” means:

- (1) for electric transmission and distribution utilities: infrastructure type, street address or physical location, route or line identification, voltage, phasing, and year placed in service.
- (2) for gas utilities: infrastructure type, street address or physical location, equipment name or number identifier, size, material, maximum allowable operating pressure, and year placed in service.

- (3) for telephone utilities: infrastructure type including any tandem functionality, street address or physical location, circuit capacity (number of voice-grade-equivalent circuits), the percentage of interoffice network capacity leased from or to another LEC or IXC on each interoffice route (identifying each such carrier), CLLI code and V&H coordinates if assigned, backup power capability, and year placed in service.
- (4) for water utilities: infrastructure type, street address or physical location, size, material, operating pressure, backup power capability, and year placed in service.
- (5) for all utilities: Maine standard geocode data to at least Minor Civil Division (five digit) levels.

3. Format of Paper Copy Maps Except as otherwise established by this Chapter, the Commission delegates to the Director of the Technical Analysis Division the responsibility to establish specifications for maps provided to the Commission pursuant to this Chapter. If necessary for clarity, certain of key infrastructure attributes may be shown on separate pages. Paper copy maps shall bear the file name and date of any companion electronic copy maps.

4. Format of Electronic Copy Maps Unless waived in advance by the Director of Technical Analysis, all electronic copies of maps, reflecting the same information as paper copy maps, shall be provided in accordance with specifications set by the Director of the Technical Analysis Division. Electronic copy maps shall include mandatory metadata.

SECTION 2. SERVICE AREA, EXCHANGE, AND WIRE CENTER BOUNDARY MAPS

1. Requirement to File Service Area Maps All utilities subject to the requirements of this Chapter (except IXCs) shall develop and maintain current service area maps of the areas in which they are authorized to serve, including any operating or administrative districts, and local telephone service exchange and wire center boundaries for exchanges with more than one wire center. Service area maps shall clearly show the complete boundary of the subject area of the map, and minor municipal civil division boundaries and all major geographic features such as roads and water bodies that will aid in determining the location of the boundaries and customers. All maps filed with the Commission shall state the effective date and the Commission Docket, if any, of the most recent proceeding in which the map was updated, and the Administrative Director shall add the effective date of the current map and the Commission Docket of the proceeding, if any, that approves the map. The service areas and telephone exchange and wire center boundaries shown on the maps required by this section shall be part of a utility's terms and conditions. The maps shall be

publicly available as required by 35-A M.R.S.A. § 305, but may be kept separate from the main body of a utility's terms and conditions. Maps shall be filed in both paper and electronic (GIS) form as provided in subsection 7 below.

A. Specific Requirements for Electric Transmission and Distribution Utilities, Gas Utilities, and Water Utilities

- (1) For any municipality or minor civil division in which the service area of an electric transmission and distribution utility, a gas utility, or a water utility, or other boundaries described above is not coincident with the municipal or minor civil division boundaries, the map(s) required by this section shall be at a scale of 1:62,500 (the scale of the USGS 15 minutes series).
- (2) For municipalities in which the service area of the utility is coterminous with the municipal or minor civil division boundaries or includes the entire municipality or minor civil division, the utility may list those municipalities and minor civil divisions in its terms and conditions in lieu of filing a map.
- (3) For municipalities or minor civil divisions in which other boundaries described above are coterminous with the municipal or minor civil division boundaries or includes the entire municipality or minor civil division, the utility may provide a list of those municipalities and minor civil divisions with its service area maps in lieu of filing a map.

B. Specific Requirements for Local Exchange Carriers Except as provided in paragraph C, local exchange utilities shall file a map or set of maps that show the boundaries of each utility's local exchanges and, if an exchange contains more than one wire center, the wire center boundaries. The maps shall be at a scale of 1:62,500 (the scale of the USGS 15 minute series). It is not necessary for local exchange carriers to file a separate map or maps that show the utility's overall service area.

C. Exception for Competitive Local Exchange Carriers A local exchange telephone utility that is not an incumbent local exchange carrier (as defined in 47 U.S.C. § 251(h)) is not required to file the maps required by paragraph B:

- (1) for any service area authorized by the Commission for either facilities-based or resale service that is statewide or that is defined by the service area(s) or exchange boundaries of one or more incumbent local exchange carrier(s); or

- (2) any exchange whose boundaries are defined in its terms and conditions as coterminous with the boundaries of specified telephone exchange(s) or wire center(s) of an incumbent local exchange carrier.

2. Changes to Service Areas When Commission Approval is Required If a utility must obtain approval from the Commission to change its service area pursuant to 35-A M.R.S.A. §§ 1104, 1321, 2102, 2103, or 2104 or for any other reason, it shall file an application for approval of the change pursuant to the applicable section. If subsection 1 of this section requires a map for the area that is the subject of the application, the applicant shall also file a proposed map or change to the existing service area map with the application, but the Administrative Director of the Commission shall not separately docket the map as a proposed change to the utility's terms and conditions pursuant to 35-A M.R.S.A. § 307. Upon ordering the approval of the service area change, the Commission shall either approve the service area map filed with the application as being in compliance with its order and as a change to the utility's terms and conditions or, if the map requires corrections, order the utility to file a corrected map. The Commission delegates to the Director of Technical Analysis the authority to approve any corrected map filed in compliance with the Commission order.

3. Changes to Service Areas When Commission Approval is Not Required If a utility does not need to obtain Commission approval pursuant to 35-A M.R.S.A. § 2102, 2103, or 2104 to change its service area because no utility is providing similar service or has authority to do so, it shall file a proposed change to its terms and conditions pursuant to 35-A M.R.S.A. § 307. The proposed changes shall be shown on the utility's service area map(s) or in its written terms and conditions as required by subsection 1 of this section.

4. Changes to Telephone Exchange Boundaries If a local exchange carrier proposes a change to a telephone exchange boundary that will not result in a change to the utility's overall service territory, it shall file a proposed change to its terms and conditions pursuant to 35-A M.R.S.A. § 307. Except as provided in subsection 1 (C), the proposed changes shall be shown on a map that complies with the requirements of subsection 1(B) of this section.

5. Other Changes to Service Territory Maps All changes to service territory maps other than those described in subsections 2, 3, and 4, including changes to administrative districts and telephone wire center boundaries where the changes do not affect an exchange boundary, are not changes to a utility's terms and conditions. Those changes shall take effect 10 days after they are filed with the Commission unless, within that period, the Director of Technical Analysis notifies the utility that the Commission staff has questions about a proposed change or believes the proposed change may contain mistaken information. When such notice is given, the Commission delegates to the Director of Technical Analysis the authority to approve either the changes that the utility proposed originally or that it makes following the notice.

6. Inter-Utility Agreement Any proposed change to a boundary between the service areas of two or more different utilities resulting from an agreement between the affected utilities shall be made as a joint filing by all affected utilities.

7. Required Filings; Number of Copies Each utility subject to the requirements of this section shall file two copies of its service area map with the Commission. Utilities shall also file two copies of the maps in electronic form unless waived in advance by the Director of Technical Analysis.

8. Initial Filing; Transitional Requirements Utilities subject to the requirements of subsection 1 shall file service area maps by September 30, 2001. Each telephone incumbent local exchange carrier shall confirm that its exchange boundary maps on file with the Commission, in both paper and electronic form, are correct and current and in conformance with this Chapter, and shall file a statement with the Commission stating that the maps are correct, or shall file corrected maps (with a statement describing the corrections), by September 30, 2001.

SECTION 3. INFRASTRUCTURE MAPS

1. Requirement to File Infrastructure Maps All utilities subject to the requirements of this Chapter (except T&D utilities that provide service only on offshore islands) shall develop and maintain current maps showing the key infrastructure used or available for use by the utility for the production, transport, transmission, and (for gas utilities only) distribution of services in Maine. Infrastructure maps shall incorporate key infrastructure attributes defined in this Chapter. Utilities shall prepare infrastructure maps that include their entire service territory in Maine, at the scales provided on Specifications issued by the Director of Technical Analysis. Maps shall be filed in both paper and electronic (GIS) form as provided in subsection 3 below.

2. Single-Line Diagrams If a utility does not have geographically-located data on certain infrastructure lines, it may file a map that shows the lines between its geographically-located midpoints and endpoints as representational point-to-point lines, in lieu of geographically-located lines.

3. Required Filings; Number of Copies Utilities shall file two copies of infrastructure maps with the Commission for informational purposes within 30 days of the end of each calendar quarter. Utilities shall also file two copies of the maps in electronic form unless waived in advance by the Director of Technical Analysis. If no changes to the information reflected in the last maps filed with the Commission have been made during the quarter, utilities may file a statement to that effect in lieu of maps.

4. Inter-Utility Interconnection Infrastructure maps shall clearly identify and show the locations of all service interconnections with other similar utilities and with wholesale and interstate suppliers and carriers, including competitive suppliers and Internet service providers.

5. Public Availability If an infrastructure map contains information that the utility wishes to remain confidential because it reveals confidential business information or for reasons of security, the utility shall request a protective order from the Commission in advance, stating all reasons why specific information should not be made public and describing the specific nature of the redacted information, and with its request shall provide one paper copy map that excludes or redacts the specific information for which protection is sought. Infrastructure maps for which a Commission protective order has not been issued will be made publicly available.

6. Initial Filing; Transitional Requirements Gas utilities shall file infrastructure maps including all infrastructure elements identified in this Chapter by September 30, 2001. All other utilities subject to filing requirements in this Section shall file this information by December 31, 2001.

SECTION 4. WAIVER

Upon the request of any person subject to the provisions of this Chapter or upon its own motion, the Commission may waive any of the requirements of this Chapter. Where good cause exists, the Commission, the Administrative Director, the Director of Technical Analysis, the Hearing Examiner, or Presiding Officer assigned to a proceeding related to this Chapter may grant the requested waiver, provided that the granting of the waiver would not be inconsistent with the purposes of this Chapter or Title 35-A.

BASIS STATEMENT: The factual and policy basis for this rule is set forth in the Commission's Statement of Factual and Policy Basis and Order Adopting Rule, Commission Docket No. 2001-284, issued on _____. Copies of this Statement and Order have been filed with this rule at the Office of the Secretary of State. Copies may also be obtained from the Administrative Director, Public Utilities Commission, 242 State Street, 18 State House Station, Augusta, Maine 04333-0018.

AUTHORITY: 35-A M.R.S.A. §§ 104, 111, 112, 301, 307, 2102-2105, and 2110.

EFFECTIVE DATE: This rule was approved as to form and legality by the Attorney General on _____. It was filed with the Secretary of State on _____ and will be effective on _____.

SPECIFICATIONS

(to be issued separately by the Director of Technical Analysis – NOT part of the Rule)

Paper copy maps

1. Size: 24"x36" preferred, but no smaller than 11"x17" and no larger than 30"x40"
2. Base data: Maine OGIS 1:24,000 (preferred), or equivalent (specify)
3. Scale: data provided should be at least accurate as 1:24,000 (except for gas local distribution infrastructure maps, which shall be provided in 1"=1000' scale, or larger in congested areas)
4. The name of the utility, a description of the information shown on the map, the date on which the map was prepared, and the scale of the information shown on the map, shall be clearly shown at the bottom right corner of the map.

Electronic copy maps

1. Standard interexchange formats: .E00 Arc/Info Export format (preferred), shape files, or .DXF format.
2. Medium: 3 ¾" diskette, 100 Mb Zip disk, or CD
3. Projection units: UTM Zone 19 datum NAD83 meters (preferred), or State Plane (specify zone)
4. Base data: OGIS 1:24,000 (preferred), or equivalent (specify)
5. Metadata: all elements specified as mandatory by the Federal Geographic Data Committee Metadata Standard (FGDC-STD-001-1998).